

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: KE-45-T

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: One component RTV rubber for general industrial sealing purposes
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: Shin-Etsu Silicones Europe B.V.

Street/POB-No.: Bolderweg 32

Postal Code, city: 1332 AV Almere
Netherlands

Telephone: +31 36-5493-170

Telefax: +31 36-5326-459

Dept. responsible for information:

QA department,

Telephone: +31 36-5493-179, Email: msds_info@shinetsu.nl

Additional information:

Manufacturer:

Shin-Etsu Chemical Co., Ltd.

6-1, 2-Chome, Ohtemachi, Chiyodaku

Tokyo, Japan

Tel: 03-3246-5345 (Tokyo, Japan)

1.4 Emergency telephone number

Telephone: +31 36-5493-170

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

Skin Sens. 1; H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

Precautionary statements:

- P261 Avoid breathing vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P302+P352 IF ON SKIN: Wash with plenty of water/soap.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.

Special labelling

Text for labelling: Contains Butan-2-one O,O',O''-(methylsilyldiylne)trioxime, Butan-2-one O,O',O''-(vinylsilyldiylne)trioxime, 2-Butanone oxime

2.3 Other hazards

No risks worthy of mention.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Organopolysiloxane mixture

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 245-366-4 CAS 22984-54-9	Butan-2-one O,O',O''-(methylsilyldiylne) trioxime	< 10 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317.
EC No. 218-747-8 CAS 2224-33-1	Butan-2-one O,O',O''-(vinylsilyldiylne) trioxime	< 5 %	Skin Irrit. 2; H315. Eye Dam. 1; H318. Skin Sens. 1; H317.
REACH 01-2119480479-24-xxxx EC No. 213-048-4 CAS 919-30-2	3- Aminopropyltriethoxysilane	< 5 %	Acute Tox. 4; H302. Skin Corr. 1B; H314. Skin Sens. 1; H317.
REACH 01-2119539477-28-xxxx EC No. 202-496-6 CAS 96-29-7	2-Butanone oxime (MEKO) impurity	< 1 %	Acute Tox. 4; H312. Eye Dam. 1; H318. Skin Sens. 1; H317. Carc. 2; H351.

Full text of H- and EUH-statements: see section 16.

Additional information: Under the influence of humidity this product may release further MEKO.

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.
- Following skin contact: Immediately wipe affected skin area with paper towel or cloth. Thoroughly wash skin with soap and water. In case of skin irritation, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth with water.
Never give an unconscious person anything through the mouth.
Consult physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Sensitising

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, water fog, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NO_x), traces of incompletely burned carbon compounds, silicon dioxide, formaldehyde, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Additional information: Hazchem-Code: -

Suppress gases/vapours/mists with water spray jet.

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe vapours.
Avoid contact with the substance. Wear suitable protective clothing.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: When not in use, keep containers tightly closed.

Provide adequate ventilation, and local exhaust as needed.

Do not breathe vapours. Avoid contact with the substance.

Wear protective equipment. Persons working with this product should not wear contact lenses.

Precautions against fire and explosion:

Avoid sparks. Keep away from sources of ignition. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep away from heat sources, sparks and open flames.

Protect from moisture contamination.

Store containers in upright position. Do not re-use the empty container.

Do not drop, drag or bang the container. Do not weld.

Keep out of the reach of children.

Further details:

Under the influence of humidity this product releases butanone-oxime (MEKO).

Storage class:

11 = Combustible solids

7.3 Specific end use(s)

One component RTV rubber for general industrial sealing purposes

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
96-29-7	2-Butanone oxime (MEKO)	Ireland: 15 minutes Ireland: 8 hours	33 mg/m ³ ; 10 ppm 10 mg/m ³ ; 3 ppm

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

If vapours form, use respiratory protection.

Recommendation: Use filter type A according to EN 14387.

If necessary: Wear self-contained breathing apparatus.

Hand protection:

Protective gloves according to EN 374.

Glove material: Plastic or rubber.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

Tightly sealed goggles according to EN 166.

Body protection:

Wear suitable protective clothing.

General protection and hygiene measures:

Use only in well-ventilated areas. Do not breathe vapour.
Keep away from heat sources, sparks and open flames.
Avoid contact with skin and eyes. Eye wash facility must be provided.
Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance:	Form: pasty Colour: milky-white, translucent
Odour:	like Oxime
Odour threshold:	no data available
pH value:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point/flash point range:	no data available
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	no data available
Vapour pressure:	at 25 °C: negligible
Vapour density:	no data available
Density:	at 25 °C: 1.05 g/cm ³
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, kinematic:	no data available
Explosive properties:	no data available
Oxidizing characteristics:	no data available

9.2 Other information

Additional information:	Relative vapour density (air=1): >1 Evaporation rate (butyl acetate =1): <1.
-------------------------	---

SECTION 10: Stability and reactivity**10.1 Reactivity**

Under the influence of humidity this product releases butanone-oxime (MEKO).

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.

10.5 Incompatible materials

Water, humidity

10.6 Hazardous decomposition products

2-Butanone oxime (MEKO).

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products: Nitrogen oxides (NO_x), traces of incompletely burned carbon compounds, silicon dioxide, formaldehyde, carbon monoxide and carbon dioxide.

Thermal decomposition: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.
- Eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

Other information: Information about 3-Aminopropyltriethoxysilane:
LD50 Rat, oral: 1570-3650 mg/kg.
LD50 Rat, dermal: 4290 mg/kg.
Causes severe skin burns and eye damage.
Mutagenicity: Negative in the Ames test..

Information about Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime, Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime:
May cause sensitisation by skin contact.

Information about 2-Butanone oxime (MEKO):
In an animal experiment, an increase of liver tumors was observed in rodents at a high chronic inhalative exposition. The significance of these results for human beings is not clarified.
Long-term exposure to MEKO may damage the mucous membrane of the nose.
Long-term high dose inhalation of MEKO may cause irreversible damage to health.
May produce blood effects.
High dose can produce transient and reversible change in neurobehavioral function.
no evidence of bioaccumulation
Skin irritations. Expect absorption through the skin.
Skin sensitisation: positive (Guinea pig).
Serious eye damage/irritation.
LD50 Rat, oral: 3,68mg/kg
LC50 Rat, inhalative: >4,8mg/L /4h
Narcotic effect possible.
Limited evidence of a carcinogenic effect.
Mutagenicity: negative (in-vitro, in-vivo).
At Concentration 15, 75, 375 ppm: Degeneration of olfactory epithelia.

Symptoms

Sensitising

SECTION 12: Ecological information**12.1 Toxicity**

Further details: no data available

12.2. Persistence and degradability

Further details: no data available

12.3 Bioaccumulative potentialPartition coefficient: n-octanol/water:
no data available**12.4 Mobility in soil**

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 02 16* = Wastes containing dangerous silicones
* = Evidence for disposal must be provided.

Recommendation: Special waste. Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Great Britain

Hazchem-Code: -
No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H351 = Suspected of causing cancer.

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 24/11/2008

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.